

Fig. 1

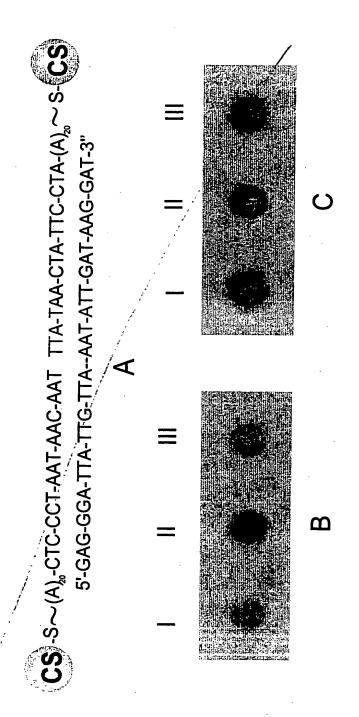


Fig. 2

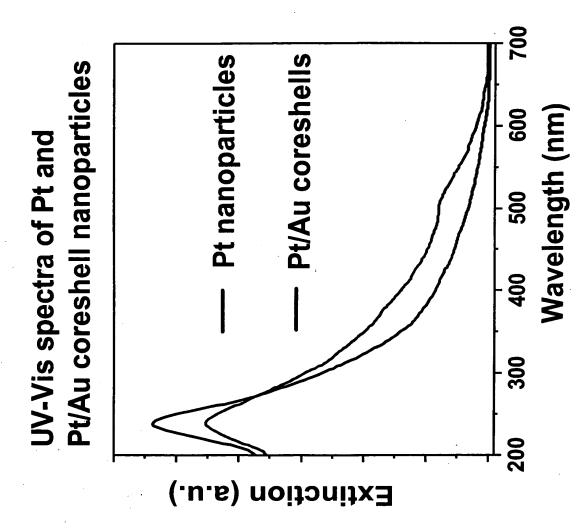
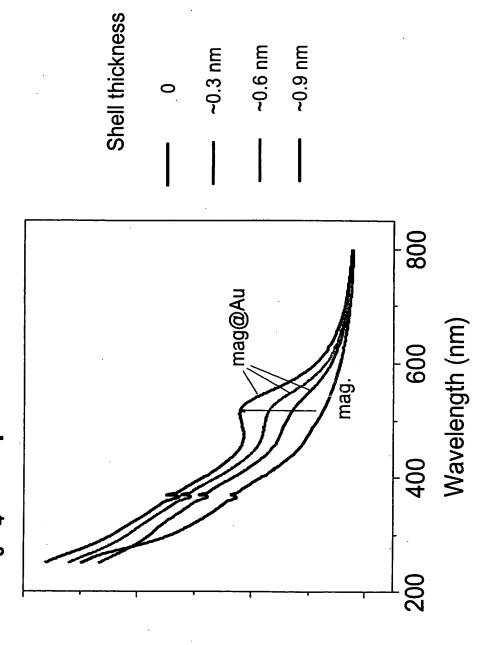


Fig. 3

Docket No. 01-661-A

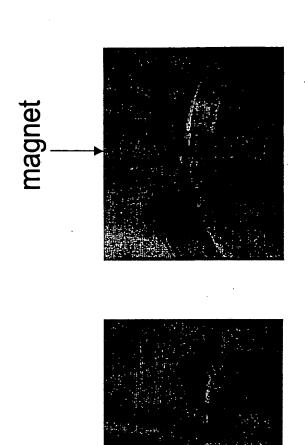
Growth of Au on the surface of Fe₃O₄ nanoparticles



Extinction (a.u.)

Fia. 4

Magnetic properties of gold coated Fe₃O₄ nanoparticles



Without a magnetic field With the color of

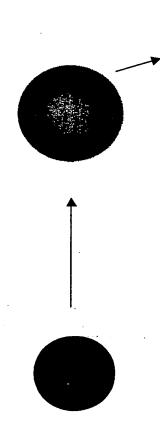
gold nanoparticles

Coloriess

In a magnetic field for 12 hrs

Fig. 5

Coreshell Approach to Magnetic Gold Nanoparticles



Gold coated magnetic nanoparticle

A: metal oxides magnetic cores: Fe₃O₄, Co₃O₄

B: pure metal cores: Fe, Co, Ni...

C: alloy metal cores: FePt, FeAu

Fig. 6

Fig. 7

